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Parts 51 to 199

Revised as of January 1, 2000

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### PART 51—ENVIRONMENTAL PRO-TECTION REGULATIONS FOR DO-MESTIC LICENSING AND RELATED REGULATORY FUNCTIONS

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**Nuclear Regulatory Commission** 

51.125 Responsible official

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d. Sec. 1701, 106 Stat. 2951, 2952, 2953, (42 U.S.C. 2201, 2297f); secs. 201, as amended, 202, 88 Stat. 1242, as amended, 1244 (42 U.S.C. 5941, 5842). Subpart A also issued under National Environmental Policy Act of 1969, secs. 102, 104, 105, 83 Stat. 853-854, as amended (42 U.S.C. 4332, 4334, 4335); and Pub. L. 95-604, 171tle II, 92 Stat. 3033-3041; and sec. 193, Pub. L. 101-575, 104 Stat. 2835, 42 U.S.C. 2243). Sections 51.20, 51.30, 51.60, 51.51, 51.80, and 61.97 also issued under secs. 135, 141, Pub. L. 97-425, 96 Stat. 2232, 2231, and sec. 148, Pub. L. 100-203, 101 Stat. 1330-223 (42 U.S.C. 10155, 10161, 10166). Section 51.27 also issued under secs. 356, 144, Pub. L. 3036-274,73 Stat. 688, as amended by 92 Stat. 3036-274,73 Stat. 688, as amend Policy Act of 1982, sec. 121, 96 Stat. 2228 (42 U.S.C. 10141). Sections 51.43, 51.67, and 51.109 also issued under Nuclear Waste Policy Act of 1982, sec. 114(f), 96 Stat. 2216, as amended 3038 (42 U.S.C. 2021) and under Nuclear Waste 12 U.S.C. 10134(f)). AUTHORITY: Sec. 161, 68 Stat. 948, as amend-

otherwise noted SOURCE: 49 FR 9381, Mar. 12, 1984, unless

### §51.1 Scope.

vironmental nations. Subject to these limitations, the regulations in this part implement: have upon the environment of foreign and related regulatory functions may effects which NRC's domestic licensing this chapter or to any environmental matters within the scope of part 110 of tions do not apply to export licensing NRC's domestic licensing and related protection regulations applicable to regulatory functions. These regula-(a) Section 102(2) of the National En-This part contains environmental Policy Act of 1969, as

### §51.2 Subparts.

(a) The regulations in subpart A of this part implement section 102(2) of the National Environmental Policy Act of 1969, as amended.

## §51.3 Resolution of conflict

or another part of this chapter applicarule in subpart A of this part and a special rule in another subpart of this part any conflict between a general

> the special rule governs. ble to a particular type of proceeding,

### §51.4 Definitions.

As used in this part:

ing any amendments thereto. 1954 (Pub. L. 83-703, 68 Stat. 919) includ-Act means the Atomic Energy Act of

representatives. latory Commission or its authorized Commission means the Nuclear Regu-

Commission, the agency established by Act of 1974, as amended. Title II of the Energy Reorganization NRC means the Nuclear Regulatory

who performs adjudicatory functions. Licensing Appeal Board, a presiding of-ficer, an administrative judge, an adcensing Board, an Atomic Safety and employee or his/her authorized representative, except a Commissioner, a nicer or employee of the Commission ministrative law judge, or any other of member of a Commissioner's immediate staff, an Atomic Safety and Li-NRC staff means any NRC officer or

NRC Staff Director means:

Director, Office of Nuclear Reactor Regula-Executive Director for Operations;

and Safeguards; Director, Office of Nuclear Material Safety

search; Director, Office of Nuclear Regulatory Re-

lic Affairs; and Director, Office of Governmental and Pub-The designee of any NRC staff director.

1987] [49 FR 9381, Mar. 12, 1984, as amended at 51 FR 35999, Oct. 8, 1986; 52 FR 31612, Aug. 21,

## §51.5 Interpretations.

part by any officer or employee of the pretation of the regulations in this the Commission in writing, no inter-Commission other than a written inter-Commission. be recognized to be binding upon the pretation by the General Counsel will Except as specifically authorized by

## §51.6 Specific exemptions.

wise in the public interest. are authorized by law and are otherulations in this part as it determines tions from the requirements of the regtion of any interested person or upon its own initiative, grant such exemp-The Commission may, upon applica-

### Subpart tions mental Implementing A—National Policy Act—Regula-molementing Section Environ-

### §51.10 Purpose and scope of subpart; application of regulations of Council on Environmental Quality.

ment of foreign nations. functions may have upon the environmestic licensing and related regulatory environmental effects which NRC's domatters within the scope of part 110 of subject to certain conditions. This subronmental Quality published November 29, 1978 (43 FR 55978-56007) voluntarily, announced policy to take account of the regulations of the Council on Envi-Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974, as amended, and the Uranium Mill with the NRC's domestic licensing and related regulatory authority under the subpart implement section 102(2) of rects that, to the fullest extent posthis chapter nor does it apply to any part does not apply to export licensing and which reflects the Commission's Tailings Radiation Control Act of 1978, quirements. The regulations in except where compliance would be incordance with the policies set forth in NEPA, and (2) all agencies of the Fedsible: (1) The policies, regulations, and NEPA in a manner which is consistent consistent with other statutory procedures in section 102(2) of NEPA eral Government shall comply with the public laws of the United States shall icy Act of 1969, as amended (NEPA) dibe interpreted and administered in ac-(a) The National Environmental Polthis re

Accordingly, the Commission will: sponsibility as an independent regulatory agency for protecting the radioconsistent with the Commission's receptive to environmental concerns and functions in a manner which is both remestic licensing and related regulatory tinuing obligation to conduct its doogical health and safety of the public. (b) The Commission recognizes a con-

tion or change to the Council's NEPA Examine any future interpreta-

that the Commission reserves the right cies and cooperating agencies, except 1501.5 and 1501.6 relating to lead agen-(2) Follow the provisions of 40 CFR

> mental impact statement whenever the NRC has regulatory jurisdiction over preparation of the statement; and not been designated as lead agency for an acitivity even though the NRC has to prepare an independent environ

predecisional referral of an NRC action 40 CFR part 1504. to the Council under the procedures of though another agency has made a decision on any matter within the (3) Reserve the right to make a final regulatory authority even

pollutant discharges 2 into receiving Federal regulation of nonradiological Amendments of 1972, Pub. L. 92–500, 86 Stat. 816 et seq. (33 U.S.C. 1251 et seq.) In also address the limitations imposed on ronmental Protection Agency. waters rests by statute with the Envi-NRC recognizes that responsibility for (86 Stat. 893, 33 U.S.C 1371(c)(2)) the accordance with section 511(c)(2) of the eral Water Pollution Control Act icy Act of 1969, as amended, by the Fedunder the National Environmental Pol-NRC's authority and responsibility Federal Water Pollution Control Act (c) The regulations in this subpart

tion pursuant to subpart B of part 2 of ters, bulletins, generic letters, notices 15 and part 160 of this chapter; orders, and denials of requests for acclude issuance of notices of violation, or proceedings are not subject to Secrelating to administrative or judicial this chapter; matters covered by part tion 102(2) of NEPA. These actions incivil or criminal enforcement actions issuance of confirmatory action let-(d) Commission actions initiating or

uct, and special nuclear materials, Train v. Colorado PIRG, 426 U.S. 1 at 25. Control Act] do not include source, byprodunder the FWPCA [Federal Water Pollution held that "pollutants' subject to regulation 20n June 1, 1976, the U.S. Supreme Court

# **Nuclear Regulatory Commission**

of deviation, and notices of non-

[49 FR 9381, Mar. 12, 1984, as amended at 54 FR 43578, Oct. 26, 1989; 61 FR 43408, Aug. 22,

### §51.11 Relationship to other subparts. [Reserved]

§51.12 Application of subpart to ongo-

ing environmental work.

tent practicable to NRC's ongoing envisubpart shall apply to the fullest exthis section, (a) Except as otherwise provided in the regulations in this

documents need be republished solely by reason of the promulgation on of the foregoing issued by the NRC before June 7, 1984, need be redone and no mental assessment, environmental im-pact statement or finding of no signifi-(b) No environmental report or any March 12, 1984, of this revision of part cant impact or any supplement to any filed with the NRC and no environsupplement to an environmental report availability of these environmental notice of intent to prepare an environmental impact statement or notice of

[49 FR 9381, Mar. 12, 1984, as amended at 49 FR 24513, June 14, 1984]

## §51.13 Emergencies.

impact without observing the provisions of these regulations. In taking an action covered by this section, the Commission will consult with the Council as soon as feasible concerning appropriate alternative NEPA arrangeaction with significant environmental delayed, the Commission may take an other situations, the health and safety of the public may be adversely affected if mitigative or remedial actions are make it necessary and whenever, in Whenever emergency circumstances

### §51.14 Definitions.

(a) As used in this subpart:

and which the Commission has found with procedures set out in §51.22, and to have no such effect in accordance cant effect on the human environment ually or cumulatively have a signifiegory of actions which do not individ-Categorical Exclusion means a cat-

> mental impact statement is required. for which, therefore, neither an environmental assessment nor an environ

agency of similar qualifications ating agency. when the effects are on a reservation. with the Commission, a State or local significantly affecting the quality of the human environment. By agreement pertise with respect to any environeral agency other than the NRC which an Indian Tribe, may become a cooperhas jurisdiction by law or special exlation or other major Federal action (or a reasonable alternative) for legismental impact involved in a proposal Cooperating Agency means any Fed-Or.

by Title II of NEPA. ronmental Quality (CEQ) established Council means the Council on Envi-

resentatives. Energy DOE means the U.S. Department of nergy or its duly authorized rep-

concise public document for which the Commission is responsible that serves Environmental Assessment means

impact. statement or a finding of no significant and analysis for determining whether to prepare an environmental impact (1) Briefly provide sufficient evidence

pact statement is necessary. with NEPA when no environmental im-(2) Aid the Commission's compliance

is necessary. ronmental impact statement when one (3) Facilitate preparation of an envi-

and a notice of intent. or comments upon those documents. mental impact statement, a finding of mental report and any supplements to no significant impact, an environenvironmental assessment, an environ-Environmental document includes an

quired by section 102(2)(C) of NEPA. a detailed written statement as re-Environmental Impact Statement means

other form of permission, or an amendtion 102(2) of NEPA. or other form of permission, or by a pement to or renewal of a permit, license an applicant for a permit, license, ment submitted to the Commission by the Commission in complying with sectitioner for rulemaking, in order to Environmental report means a docu-

means a concise public document Finding of No Significant Impact

and became effective January 30, 1976. REGISTER on December 31, 1975 (40 FR 60115) Act (FWPCA) attached as Appendix A there-to, which were published in the FEDERAL 511 of the Federal Water Pollution Control tain NRC and EPA Responsibilities and Polstanding Regarding Implementation of Cericy Statement on Implementation of Section See also Second Memorandum of Underwhich were published in the

an environmental impact statement environment and for which therefore have a significant effect on the human that briefly states the reasons why an action, not otherwise excluded, will not which the Commission is responsible will not be prepared.

mental Policy Act of 1969, as amended (Pub. L. 91-190, 83 Stat. 852, 856, as amended by Pub. L. 94-83, 89 Stat. 424, 42 U.S.C. 4321, et seq.). NEPA means the National Environ-

will be prepared and considered. an environmental impact statement Notice of Intent means a notice that

Uranium enrichment facility means:

purposes only; or used for experimental or analytical uranium in the isotope 235, except laboratory scale facilities designed or (1) Any facility used for separating the isotopes for uranium or enriching

portant component part especially deuranium or enriching uranium in the signed for such equipment or device, capable of separating the isotopes of (2) Any equipment or device, or im-

implementing section 102(2) of NEPA. 1508.7 1508.26, and 1508.27, will also be used in 1508.17, 1508.18, 1508.20, (b) The definitions in 40 CFR 1508.3, 1508.8, 1508.14, 1508.15, 1508.16, 1508.18, 1508.20, 1508.23, 1508.25,

[49 FR 9381, Mar. 12, 1984, as amended at 57 FR 18391, Apr. 30, 1992]

## §51.15 Time schedules.

erations of national policy: 51.101, and with other essential considin part 2 of this chapter, §§51.100 and NEPA, the Administrative Procedure Act, the Commission's rules of practice Consistent with the purposes of

stituent part of the NRC staff NEPA process. To the maximum extent practicable, the NRC staff will conduct its time schedule established under this NEPA review in accordance with any time schedule for all or any contioner for rulemaking shall, establish a plicant for a proposed action or a petitor may, and upon the request of an ap-(a) The appropriate NRC staff direc-

Atomic Safety and Licensing Appeal this chapter, the presiding officer, the (b) Pursuant to subpart G of part 2 of

> schedule for all or any part of an adjua collegial body may establish a time the extent that each has jurisdiction. dicatory or rulemaking proceeding to Board or the Commissioners acting as

## §51.16 Proprietary information.

quests for Withholding," of part 2. tial commercial or financial informatrade secrets or privileged or confidention, will be treated in accordance with 'Rules of Practice," of this chapter. 'Public Inspections, Exemptions, Re-(a) Proprietary information, such as procedures provided in §2.790,

proprietary information should also identified and accompanied by a reprovided. describing the general content of the closure. A non-proprietary summary quest, containing detailed reasons and mitted in accordance with §2.790 of this formation be withheld from public disjustifications, that the proprietary inetary information should be clearly chapter. When submitted, the proprifrom public disclosure shall be subwhich a person seeks to have withheld ਭ Any proprietary information

### §51.17 Information collection requirements; OMB approval.

son is not required to respond to, a coltained in this part under control nummation collection requirements connumber. OMB has approved the inforplays a currently valid OMB control may not conduct or sponsor, and a per-Act (44 U.S.C. 3501 et seq.). The NRC quired by the Paperwork Reduction and Budget (OMB) for approval as relection of information unless it disthis part to the Office of Management collection requirements contained in sion has submitted the information (a) The Nuclear Regulatory Commis-

51.68, and 51.69. in §§51.16, 51.41, 51.45, 51.50, 51.51, 51.52, 51.53, 51.54, 51.55, 51.60, 51.61, 51.62, 51.66 tion requirements in this part appear (b) The approved information collec-

[49 FR 24513, June 14, 1984, as amended at 62 FR 52188, Oct. 6, 1997]

## PRELIMINARY PROCEDURES

**Nuclear Regulatory Commission** 

CLASSIFICATION OF LICENSING AND

REGULATORY ACTIONS

### \$51.20 Criteria for and identification of licensing and regulatory actions environmental impact

the following criteria: statement shall meet at least one of (a) Licensing and regulatory actions an environmental 1mpact

Federal action significantly affecting the quality of the human environment. (1) The proposed action is a major

mental impact statement. exercise of its discretion, has determined should be covered by an environmatter which the Commission, in the (2) The proposed action involves a

quire an mental impact statement: ment or a supplement to an environ-(b) The following types of actions re-uire an environmental impact state-

part 50 of this chapter.
(2) Issuance or renewal of a full power ization or a permit to construct a nuclear power reactor, testing facility or (1) Issuance of a limited work authorreprocessing plant pursuant ξt

or fuel reprocessing plant pursuant to part 50 of this chapter. nuclear power reactor, testing facility, or design capacity license to operate a

or a design capacity license to operate plant pursuant to part 50 of this chapor renewal of a design capacity license (3) Issuance of a permit to construct operate an isotopic enrichment

viously prepared. capacity operation has not been prestatement covering full term or design ter if a final environmental impact license pursuant to part 50 of this chapplant to a full term or design capacity tor, testing facility or fuel reprocessing ating license for a nuclear power reac-(4) Conversion of a provisional oper-

(5) [Reserved]
(6) Issuance of a license to manufacture pursuant to Appendix M of part 52 of this chapter.

hexafluoride pursuant to part 70 of this processing and fuel fabrication, scrap and use special nuclear material for (7) Issuance of a license to possess or conversion of uranium

> hexafluoride pursuant to part 40 of this use source material Issuance of a license to possess or production Of, for uranium uranium

monitored retrievable storage installareactor, or for the storage of spent fuel or high-level radioactive waste in a tion (MRS). site not occupied by a nuclear power of spent fuel in an independent spent part 72 of this chapter for the storage fuel storage installation (ISFSI) at a (9) Issuance of a license pursuant to

nium enrichment facility. (10) Issuance of a license for a ura-

authorizing receipt and disposal of rapursuant to part 61 of this chapter. dioactive waste from other persons (11) Issuance of renewal of a license

institutional control, or (iii) termination of the license at the end of the thorizing (i) closure of a land disposal site, (ii) transfer of the license to the disposal site owner for the purpose of (12) Issuance of a license amendment pursuant to part 61 of this chapter auinstitutional control period.

part 60 of this chapter. thorization and license pursuant (13) Issuance of a construction au-6

Clusion. an action covered by a categorical exan environmental impact statement on may, in special circumstances, prepare quality of the human environment. As provided in §51.22(b), the Commission sion action significantly affecting the mission determines is a major Commis-(14) Any other action which the Com-

[49 FR 9381, Mar. 12, 1984, as amended at 53 FR 31681, Aug. 19, 1988; 53 FR 24052, June 27, 1988; 54 FR 15398, Apr. 18, 1989; 54 FR 27870, July 3, 1989; 57 FR 16392, Apr. 30, 1992]

### §51.21 Criteria for and identification of licensing and regulatory actions requiring environmental assessments.

§51.22(d) as other actions not requiring subject to this subpart require an envienvironmental review. As provided ical exclusions, and those identified in those identified in §51.22(c) as categorenvironmental identified in §51.20(b) as requiring an ronmental assessment except All licensing and regulatory actions impact statement,

mental assessment on an action cov-§51.22(b), the Commission may, in speered by a categorical exclusion. cial circumstances, prepare an environ-

[54 FR 27870, July 3, 1989]

§51.22 Criterion for categorical exclusion; identification of licensing and regulatory actions eligible for catrequiring environmental review. egorical exclusion or otherwise not

egorical exclusion, after first finding actions which the Commission, by rule or regulation, has declared to be a catsignificant effect on the human enviposed action belongs to a category of ronment. that the category of actions does not meet the following criterion: The proeligible for categorical exclusion shall individually or cumulatively have a (a) Licensing and regulatory actions

any interested person, an environ-mental assessment or an environits own initiative or upon request of as determined by the Commission upon egorical exclusions set out in paragraph (c) of this section. Special cirof actions included in the list of catquired for any action within a category native uses of available resources withresolved conflicts concerning alterwhere the proposed action involves uncumstances include the circumstance mental impact statement is not re-NEPA. in the meaning of section 102(2)(E) of (b) Except in special circumstances,

tions are categorical exclusions: (c) The following categories of ac-

(1) Amendments to parts 0, 1, 2, 4, 7, 8, 9, 10, 11, 14, 19, 21, 25, 55, 75, 95, 110, 140, 150, 170, or 171 of this chapter, and lating to these amendments. actions on petitions for rulemaking re-

a minor or nonpolicy nature and do not tions, and actions on petitions for rulesubstantially modify existing regulathis chapter which are corrective or of (2) Amendments to the regulations in

making relating to these amendments. (3) Amendments to parts 20, 30, 31, 32, 33, 34, 35, 39, 40, 50, 51, 54, 60, 61, 70, 71, 72, 73, 74, 81 and 100 of this chapter which relate to-

struction permits or other forms of permission or for amendments to or reing applications for licenses or con-(i) Procedures for filing and review-

> mits or other forms of permission; newals of licenses or construction per-

- (iii) Reporting requirements; and (ii) Recordkeeping requirements; or
- making relating to these amendments. (iv) Actions on petitions for rule-
- section 274 of the Atomic Energy Act of latory authority of the Commission. tion by the State and discontinuance an agreement with a State pursuant to pension, or termination of all or part of by the Commission of certain regu-1954, as amended, providing for assump-(4) Entrance into or amendment, sus-

ment and supplies. 9 Procurement of general equip-

not involve any significant construcance, confirmatory research provided that the confirmatory research does tion of commercial reactors, other falating to the safe operation and protection impacts, and personal services re-(6) Procurement of technical assist-

licensing and regulation. (7) Personnel actions.

cilities, and materials subject to NRC

55 of this chapter. of operators' licenses pursuant to part (8) Issuance, amendment, or renewal

as defined in part 20 of this chapter, or nent located within the restricted area. hazards consideration, (ii) there is no significant change in the types or sigveillance requirement, provided that (i) ant to part 50 of this chapter which effluents that may be released offsite nificant increase in the amounts of any which changes an inspection or a surinstallation or use of a facility compochanges a requirement with respect to permit or license for a reactor pursutional radiation exposure. and (iii) there is no significant increase the amendment involves no significant in individual or cumulative occupa-(9) Issuance of an amendment to a

permit or license pursuant to parts 30, 31, 32, 33, 34, 85, 36, 39, 40, 50, 60, 61, 70 or part 72 of this chapter which (1) changes surety, insurance and/or inrecordkeeping, reporting, or administrative procedures or requirements. demnity requirements, or (ii) changes (10) Issuance of an amendment to a

ments to materials licenses identified active waste disposal sites and amendcenses for fuel cycle plants and radio-(11) Issuance of amendments to li-

in §51.60(b)(1) which are administra-

**Nuclear Regulatory Commission** 

for or consequences from radiological construction impact, and (iv) there is no significant increase in the potential exposure, (iii) there is no significant or cumulative occupational radiation is no significant increase in individual that may be released offsite, (ii) there crease in the amounts of any effluents change in the types or significant invided that (i) there is no significant process operations or equipment, protive, organizational, or procedural in nature, or which result in a change in

pursuant to 10 CFR 73.37. ministrative changes, and (iv) review and approval of transportation routes or materials accountability, (iii) adtions to systems used for security and/ and procedural matters, (ii) modificaals are confined to (i) organizational volve any significant construction imamendment or approval does not 73 of this chapter, provided that an approval of a safeguards plan sub-mitted pursuant to parts 50, 70, 72, and special nuclear material) or issuance of against sabotage or loss or diversion of to safeguards matters (i.e., protection 72 or 75 of this chapter relating solely license pursuant to parts 50, 60, 61, 70, pacts. These amendments and approv-(12) Issuance of an amendment to a the Ħ,

packages to be used for the transportation of licensed materials. (13) Approval of package designs for

types of activities: 40 or part 70 authorizing the following 10 CFR parts 30, 31, 32, 33, 34, 35, 36, 39, of materials licenses issued pursuant to (14) Issuance, amendment, or renewal

radioactive material to general licensees and to persons exempt from licensrial and devices or products containing (i) Distribution of radioactive mate-

ceuticals, generators, reagent kits and/ or sealed sources to persons licensed pursuant to 10 CFR 35.18. (ii) Distribution of radiopharma-

(iii) Nuclear pharmacles. (iv) Medical and veterinary.

cational purposes. research and development and for edu-(v) Use of radioactive materials for

(vi) Industrial radiography

(vii) Irradiators.

sealed sources. gauging devices, analytical instruments and other devices containing (viii) Use of sealed sources and use of

terial in containers or devices. (ix) Use of uranium as shielding ma-

and calibration. installation, maintenance, leak tests incident to performing services such as (x) Possession of radioactive material

dures. dioactive tracers in well-logging proce-(xi) Use of sealed sources and/or ra-

same time does not exceed 50 curies. vided the interim storage period packages held in interim storage at the and the total possession limit for all any package does not exceed 180 days active wastes from others for transfer to licensed land burial facilities pro-(xii) Acceptance of packaged radio-

and other metals. material for extraction of rare earth censees, except processing of source materials for distribution to other lisource, byproduct, or special nuclear (xiii) Manufacturing or processing of

(xiv) Nuclear laundries.

tions of depleted uranium military muniessing, shipment, testing, or other use (xv) Possession, manufacturing, proc-

special nuclear material not listed this section (Category 14). in paragraphs (c)(14) (i) through (xv) of nuclear material similar to those listed forms of source, byproduct, or special above which involves quantities and (xvi) Any use of source, byproduct, or

of this chapter, except for import of spent power reactor fuel. ties and materials pursuant to part 110 of licenses for import of nuclear facili-(15) Issuance, amendment or renewal

any legal requirements. dural documents that do not impose ment of other informational and procefor the implementation of regulations in this chapter, and issuance or amend-(16) Issuance or amendment of guides

ation or monitoring requirement based on or applicable to any matter subject to the provisions of the Federal Water Pollution Control Act. deletes any limiting condition of oper-40, 50 or part 70 of this chapter which permit or license pursuant to parts 30, (17) Issuance of an amendment to

**Nuclear Regulatory Commission** 

Commission that applicable emergency authorization rests solely on a deterplanning requirements are met. mination or redetermination by the operation, provided the basis for the tion or utilization facilities to resume ders authorizing licensees of produc-(18) Issuance of amendments or or-

tion, or renewal of a certificate of compliance of gaseous diffusion enrichment facilities pursuant to 10 CFR part 76. (19) Issuance, amendment, modifica-

to the use oflicensed operations have been limited (20) Decommissioning of sites where

dioactive materials; or (i) Small quantities of short-lived ra-

of leakage of radioactive material from sources, provided there is no evidence these sealed sources. (ii) Radioactive materials in sealed

cense required to reflect the approval and any associated amendments of 11of a direct or indirect transfer of an transfers of any license issued by NRC NRC license. (21) Approvals of direct or indirect

proving or disapproving applications under part 60 of this chapter shall not (d) In accordance with section 121 of the Nuclear Waste Policy Act of 1982 paragraph (E) or (F) of section 102(2) of any environmental review under subment, an environmental assessment, or require an environmental impact statethat the Commission will apply in aptechnical requirements and criteria (42 U.S.C. 10141), the promulgation of

[49 FR 9381, Mar. 12, 1984, as amended at 51 FR 9766, Mar. 21, 1986; 51 FR 38231, Sept. 18, 1986; 52 FR 8241, Mar. 17, 1987; 54 FR 27870, July 3, 1989; 58 FR 7737, Feb. 9, 1993; 59 FR 48959, Sept. 23, 1994; 60 FR 22491, May 8, 1995; 61 FR 9902, Mar. 12, 1996; 62 FR 39091, July 21, 1997; 63 FR 66735, Dec. 3, 1998]

### §51.23 Temporary storage of spent significant environmental impact. fuel after cessation of reactor oper-ation—generic determination of no

for operation (which may include the term of a revised or renewed license) of neric determination that, if necessary, that reactor at its spent fuel storage least 30 years beyond the licensed life be stored safely and without spent fuel generated in any reactor can (a) The Commission has made a geenvironmental impacts for signifia

> licensed life for operation of any reactor to dispose of the commercial highbe available within 30 years beyond the and sufficient repository capacity will quarter of the twenty-first century, itory will be available within the first pendent spent fuel storage installabasin or at either onsite or offsite indein such reactor and generated up to level waste and spent fuel originating that at least one mined geologic reposlieves there is reasonable assurance that time. Further, the Commission be-

(b) Accordingly, as provided in §51.30(b), 51.53, 51.61, 51.80(b), 51.95 and the term of the reactor operating license or amendment or initial ISFSI lineric determination in paragraph (a) of 51.97(a), and within the scope of the geronmental report, environmental imcense or amendment for which applicaindependent spent fuel storage instalronmental impact of spent fuel storage this section, no discussion of any enviamendment thereto. age of spent fuel at an ISFSI, or any clear reactor or in connection with the ment of an operating license for a nunection with the issuance or amendment or other analysis prepared in conpact statement, environmental assesstion is made, is required in any envilations (ISFSI) for the period following in reactor facility storage pools or issuance of an initial license for stor-

during the term of a reactor operating quirements to consider the environcensing proceeding. mental impacts of spent fuel storage license or a license for an ISFSI in a li-(c) This section does not alter any re-

[49 FR 34694, Aug. 31, 1984, as amended at % FR 38474, Sept. 18, 1990]

DETERMINATIONS TO PREPARE ENVIRON-OF NO SIGNIFICANT IMPACT, AND RE-RONMENTAL ASSESSMENTS OR FINDINGS MENTAL IMPACT STATEMENTS, ENVI-LATED PROCEDURES

## §51.25 Determination to prepare envi-ronmental impact statement or en-vironmental assessment; eligibility for categorical exclusion.

determine on the basis of the criteria ject to the provisions of this subpart the appropriate NRC staff director will Before taking a proposed action sub-

whether the proposed action is of the and classifications of types of actions in §§51.20, 51.21 and 51.22 of this subpart

prepared. ronmental impact statement will be essary if it is determined that an envivironmental assessment is not necassessment should be prepared. An enexclusion or whether an environmental type listed in §51.22(c) as a categorical impact statement or an environmental

# §51.26 Requirement to publish notice of intent and conduct scoping proc-

propriate scoping process (see §§51.27, 51.28, and 51.29) will be conducted. ISTER as provided in §51.116, and an apwill be published in the FEDERAL REGbe prepared as provided in §51.27, and proposed action, a notice of intent will prepared by NRC in connection with a ronmental impact statement will be staff director determines that an envi-(a) Whenever the appropriate NRC

(b) The scoping process may include a

public scoping meeting.

priate NRC staff director determines, at the time of such publication or at any time thereafter, that NRC should application, the procedures set out in impact statement in connection with paragraph (a) of this section shall be prepare a supplemental environmental practicable. However, if the approsion intention to adopt the environquired to be published by §2.101(f)(8) of clude in the notice of docketing rethe Commission's action on the license mental impact statement to the extent this chapter a statement of Commispropriate NRC staff director will inhigh-level radioactive waste), the apstatement under §60.22 of this chapter accompanying environmental impact pertaining to geologic repositories for (c) Upon receipt of an application and

FR 27870, July 3, 1989] 19 FR 9381, Mar. 12, 1984, as amended at 54

## §51.27 Notice of intent.

- \$51.26 shall: (a) The notice of intent required by
- pact statement will be prepared; (1) State that an environmental im-
- available, possible alternatives; to the extent sufficient information is (2) Describe the proposed action and,

copies are available for public inspecvironmental report, and, if so, where titioner for rulemaking has filed an en-(3) State whether the applicant or pe-

will be announced; and when the time and place of the meeting and place of any scoping meeting or scoping meeting will be held, the time should be sent, whether a public ting comments and where comments be accepted, the last date for submitprocess, including the role of participants, whether written comments will (4) Describe the proposed scoping

and the environmental impact stateproposed action, the scoping process, who can provide information about the phone number of an individual in NRC (5) State the name, address and tele-

### SCOPING

## §51.28 Scoping-participants.

to participate in the scoping process: tor shall invite the following persons (a) The appropriate NRC staff direc-

rulemaking; (1) The applicant or the petitioner for

the proceeding; who has been admitted as a party leave to intervene in the proceeding or (2) Any person who has petitioned for

evant environmental standards; pertise with respect to any environhas jurisdiction by law or special exthorized to develop and enforce retmental impact involved or which is au-(3) Any other Federal agency which

standards; and enforce relevant environmental including those authorized to develop (4) Affected State and local agencies,

(5) Any affected Indian tribe; and

scoping process. opportunity to (6) Any person who has requested an participate in

scoping process. tor may also invite any other appropriate person to participate in the (b) The appropriate NRC staff direc-

which the environmental impact state-ment relates. Participation in an adjudicatory proceeding is governed by the ess for an environmental impact stateto become a party to the proceeding to ment does not entitle the participant (c) Participation in the scoping proc-

decided to have a hearing is governed ceeding in which the Commission has procedures in 10 CFR 2.714 and 2.715. Participation in a rulemaking proby the provisions in the notice of heara rulemaking pro-

## §51.29 Scoping—environmental impact statement.

- lication of the notice of intent as provided in §51.116, and shall be used to: begin as soon as practicable after pubronmental impact statement shall (a) The scoping process for an envi-
- used for this purpose. The provisions of 40 CFR 1502.4 will be is to be the subject of the statement. (1) Define the proposed action which
- issues to be analyzed in depth. (2) Determine the scope of the stateand identify the significant
- coverage elsewhere. mental review. Discussion of these issues in the statement will be limited tailed study issues which are periphenvironment or a reference to peripheral or will not have a signifi-cant effect on the quality of the human to a brief presentation of why they are have been covered by prior environeral or are not significant or which (3) Identify and eliminate from de-
- under consideration. sessments and other environmental imbe prepared that are related to but are not part of the scope of the statement pact statements which are being or will (4) Identify any environmental as-
- statement. grated with the environmental impact may be prepared concurrently and inteother required analyses and studies lated to the proposed action so that view and consultation requirements re-(5) Identify other environmental re-
- making schedule. sion's tentative planning and decisionthe timing of the preparation of environmental analyses and the Commis-(6) Indicate the relationship between
- NRC and any cooperating agencies. and as appropriate, allocate assignments for preparation and schedules for completion of the statement to the (7) Identify any cooperating agencies,
- be prepared, including any contractor environmental impact statement will assistance to be used. (8) Describe the means by which the

- of the summary to each participant in of the determinations and conclusions reached, including the the scoping process. rector will prepare a concise summary issues identified, and will send a copy process, the appropriate NRC staff di-(b) At the conclusion of the scoping significant
- bear on the proposed action or its imcumstances or information arise which tion, tion, as appropriate, if substantial changes are made in the proposed acmade under paragraph (b) of this secment, the appropriate NRC staff director may revise the determinations the draft environmental impact state-(c) At any time prior to issuance of ç if significant new

## ENVIRONMENTAL ASSESSMENT

# Environmental assessment.

- include: shall identify the proposed action and An environmental assessment
- (1) A brief discussion of:
- (i) The need for the proposed action; (ii) Alternatives as required by sec-

tion  $102(2)(\mathbb{E})$  of NEPA;

- appropriate; and the proposed action and alternatives as (iii) The environmental impacts of
- sulted, and identification of sources (2) A list of agencies and persons con-
- with the provisions of §51.23(b). mination in §51.23(a) and in accordance within the scope of the generic deterany aspect of the storage of spent fuel sessment will not include discussion of the Commission, an environmental as-(b) Unless otherwise determined by
- criteria for an MRS set forth in section Act of 1982 (96 Stat. 2242, 42 U.S.C MRS or any alternative to the design (MRS) will not address the need for the a proposed action regarding a mon-(41(b)(1) of the Nuclear Waste Policy itored retrievable storage installation (c) An environmental assessment for

[49 FR 9381, Mar. 12, 1984, as amended at 49 FR 34694, Aug. 31, 1984; 53 FR 31681, Aug. 19.

### §51.31 Determinations based on environmental assessment.

significant impact on the proposed action. As provided in §51.33, a deterno significant impact may be made. mination to prepare a draft finding impact statement or a finding of no whether to prepare an environmental mental assessment, staff director will determine completion of an environthe appropriate ದ್ದ

FINDING OF NO SIGNIFICANT IMPACT

### \$51.32 Finding of no significant impact.

- (a) A finding of no significant impact
- (1) Identify the proposed action;
- mental impact statement for the proposed action; termined not to prepare an environ-(2) State that the Commission has de-
- the proposed action will not have a significant effect on the quality of the human environment; (3) Briefly present the reasons why
- ment or a summary of the environ-mental assessment. If the assessment is included, the finding need not repeat but may incorporate it by reference; any of the discussion in the assessment (4) include the environmental assess-
- mental documents; and (5) Note any other related environ-
- where the documents may be inspected. available for public inspection and lated environmental documents are (6) State that the finding and any re-

### \$51.33 Draft finding of no significant impact; distribution.

- on the proposed action. significant impact for public review final finding of no significant impact vironmental impact statement or a termination whether to prepare an enand comment before making a final deprepare and issue a draft finding of no director may make a determination to this section, the appropriate NRC staff (a) As provided in paragraph (b) of
- ionowing: prepared will ordinarily include the inding of no significant impact may be (b) Circumstances in which a draft
- appears warranted for the proposed action but the proposed action is (1) (1) A finding of no significant impact

closely similar to one which normally out precedent; and mental impact statement, or (ii) withrequires the preparation of an environ-

- will further the purposes of NEPA. draft finding of no significant impact tor determines that preparation of a (2) The appropriate NRC staff direc-
- period as may be specified in the notice of the draft finding, and (4) be pub-lished in the FEDERAL REGISTER as required by §§ 51.35 and 51.119. within thirty (30) days, or such longer posed action and on the draft finding a request for comments on the pro-§51.32, (3) be accompanied by or include impact will (1) be marked "Draft", (2) contain the information specified in impact will (1) be marked "Draft" (c) A draft finding of no significant
- as provided in §51.74(a). Additional copance with §51.123. ies will be made available in accord-(d) A draft finding will be distributed
- riod has expired. cant impact is issued for a proposed acfor that action shall not be made until a final finding of no significant impact an environmental impact statement or the last day of the public comment petion, a final determination to prepare (e) When a draft finding of no signifi-

### §51.34 Preparation of finding of no significant impact.

- the action. nificant impact will be prepared by the (b) of this section, the finding of no sig-NRC staff director authorized to take (a) Except as provided in paragraph
- collegial body, as appropriate, will Board, or the Commission acting as a ımpact. issue the final finding of no significant subject to modification as a result of Atomic Safety and Licensing Appeal the nature and scope of the proceeding review and decision as appropriate to of no significant impact which may be rector will prepare a proposed finding In such cases, the presiding officer, the gial body, the appropriate NRC staff disubpart G of part 2 of this chapter or the Commissioners acting as a collewhen the action can only be taken posed action under the regulations in (b) When a hearing is held on the pro-

## §51.35 Requirement to publish finding of no significant impact; limitation on Commission action.

REGISTER as provided in §51.119. impact on a proposed action, the find-ing will be published in the FEDERAL a draft or final finding of no significant (a) Whenever the Commission makes

Commission shall not take the proposed action until after the final finding has been published in the FEDERAL (b) Except as provided in §51.13, the

ENVIRONMENTAL REPORTS AND INFORMA-RULEMAKING APPLICANTS TION-REQUIREMENTS APPLICABLE TO ANU PETITIONERS FOR

### GENERAL

# §51.40 Consultation with NRC staff.

sible in its planning process before submitting environmental information or tioner for rulemaking is encouraged to confer with NRC staff as early as posfiling an environmental report. (a) A prospective applicant or peti-

clude inquiries relating to: tion on environmental matters may in-(b) Requests for guidance or informa-

(1) Applicable NRC rules and regula-

priate to their relative significance; scribed in §51.29 in a manner approfor filing environmental reports and other environmental information, including the type and quantity of envitions; needed to address issues and concerns ronmental information likely to be dentified in the scoping process de-8 Format, content and procedures

mental studies and environmental information; (3) Availability of relevant environ-

tion with an application or petition for information which the Commission may require to be submitted in connecscope of any environmental studies or rulemaking; (4) Need for, appropriate level and

(5) Public meetings with NRC staff.

the following NRC staff offices as apmental matters should be addressed to ම Questions concerning environ-

propriate: (1) Utilization facilities: Director, Ofof Nuclear Reactor Regulation,

O S O D

Nuclear Regulatory Commission,

Washington, DC 20555, Telephone: (301

Telephone: (301) 415-7800. Commission, Safeguards, U.S. Nuclear Regulatory fice of Nuclear Material Safety and (2) Production facilities: Director, Of Washington, DC 20555

(3) Materials licenses: Director, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555, Telephone: (301) 415-7800.

clear Regulatory Research, U.S. Nuclear Regulatory Commission, Washington, DC 20555, Telephone: (301) 415-6641 (4) Rulemaking: Director, Office of Nu-

Washington, DC 20555, Telephone: (301) Nuclear ecutive Director for Operations, U.S. (5) General Environmental Matters: Regulatory Commission Ř

[49 FR 9381, Mar. 12, 1984, as amended at 53 FR 13399, Apr. 25, 1988; 60 FR 24552, May 9.

### §51.41 Requirement to submit envi roumental information.

ability of any information which uses. ate and be responsible for Commission will independently evaluplying with section 102(2) of NEPA. The ful in aiding the Commission in comrulemaking to submit such informaor renewal of a permit, license or other tion to the Commission as may be useform of permission, or a petitioner for form of permission, or amendment to plicant for a permit, license, or other The Commission may require an the reli-

ENVIRONMENTAL REPORTS-GENERAL REQUIREMENTS

## §51.45 Environmental report.

or §51.69. An applicant or petitioner for (a) General. As required by §§51.50, 51.53, 51.54, 51.60, 51.61, 51.62 or §51.68, as rulemaking may submit a supplement ber of copies specified in §§ 51.55, 51.66 rulemaking one signed original of a separate document entitled "Appliappropriate, each applicant or peti-Report," as appropriate, and the numcant's" or "Petitioner's Environmental with its application or petition for for rulemaking shall submit

### environmental report at any

cuss the following considerations: of the environment affected, and disstatement of its purposes, a description description of the proposed action, a environmental report shall contain a (b) Environmental considerations. The

on the environment. Impacts shall be discussed in proportion to their signifi-(1) The impact of the proposed action

(2) Any adverse environmental effects which cannot be avoided should the proposal be implemented;

conflicts concerning alternative uses of available resources." To the extent ploring, pursuant to section 102(2)(E) of NEPA, "appropriate alternatives to iorm; recommended courses of action in any of the proposal and the alternatives practicable, the environmental impacts proposal which involves unresolved the Commission in developing and exshall be sufficiently complete to (3) Alternatives to the proposed ac-The discussion of alternatives be presented in comparative aid

of long-term productivity; and and the maintenance and enhancement (4) The relationship between local short-term uses of man's environment

should it be implemented. be involved commitments of resources which would (5) Any irreversible and irretrievable in the proposed action

available for reducing or avoiding ador technical benefits and costs of either §51.53(c) need not discuss the economic ronmental reports prepared at the posed action and of alternatives. and other benefits and costs of the prosideration of the economic, technical mental report should also include con-§51.53(c), the analysis in the environenvironmental reports prepared at the verse environmental effects. Except for the proposed action, and alternatives ronmental impacts of alternatives to siders and balances the environmental port shall include an analysis that conlicense renewal stage pursuant effects of the proposed action, the envi-(c) Analysis. The environmental rerenewal stage pursuant S<sub>t</sub>

> of an independent analysis. qualitative terms. The environmental cannot be quantified, those considerfullest extent practicable, quantify the environmental effects of the proposed aid the Commission in its development report should contain sufficient data to ations or factors shall be discussed in tative considerations or factors that tent that there are important qualivarious factors considered. To the exfor environmental reports shall, to the action and alternatives. The analyses discuss other issues not related to the pared pursuant to §51.53(c) need addition, environmental reports sidered or relevant to mitigation. native in the range of alternatives conregarding the inclusion of an alterare either essential for a determination cept insofar as such benefits and costs the proposed action or alternatives exprenot п

and requirements. environmental protection. The discusvironmental report shall also include a discussion of the status of compliance ance with these requirements. The encable environmental quality standards ternatives will comply with such applision of alternatives in the report shall posed by Federal, State, regional, and or requirements which have been imand other water pollution limitations and land-use regulations, and thermal standards and requirements including mental report shall list all Federal perinclude a discussion of whether the allocal agencies having responsibility for but not limited to, applicable zoning with applicable environmental quality and shall describe the status of compliconnection with the proposed action titlements which must be obtained mits, licenses, approvals and other en-(d) Status of compliance. The environ-

also include adverse information. tion submitted pursuant to paragraphs porting the proposed action but should not be confined to information sup-(b) through (d) of this section should (e) Adverse information. The informa-

[49 FR 9381, Mar. 12, 1984, as amended at FR 28486, June 5, 1996; 61 FR 66542, Dec. 1 18,

ENVIRONMENTAL REPORTS—PRODUCTION AND UTILIZATION FACILITIES

### §51.50 Environmental struction permit stage. report-con-

mental Report-Construction Permit Stage," which shall contain the inforronmental conditions in accordance ment, entitled "Applicant's Environspecified in §51.55, of a separate docustruct a production or utilization facilwith §50.36b of this chapter. sible inclusion in the license as enviaquatic environment, proposed for posquirements for protecting the nonand any conditions and monitoring rekeeping records of environmental data, 51.52. Each environmental report shall mation specified in §§51.45, 51.51 and its application the number of copies, as ity covered by §51.20 shall submit with identify procedures for reporting and Each applicant for a permit to con-

# §51.51 Uranium fuel cycle environ-mental data—Table S-3.

mental effects of uranium mining and milling, the production of uranium ating the contribution of the environmental Data, as the basis for evalu-Table of Uranium Fuel Cycle Environtember 4, 1979, shall take Table S-3 reactor, and submitted on or after Seppared for the construction permit stage of a light-water-cooled nuclear power uranium fuel cycle activities to the environmental costs of licensing the nuwastes and high level wastes related to fuel, transportation of radioactive mafabrication, reprocessing of irradiated hexafluoride, isotopic enrichment, fuel of the data set forth in the table as weighed in the analysis for the proand may be supplemented by a discussion of the environmental significance included in the environmental report clear power reactor. Table S-3 shall be terials and management of low level posed facility. (a) Every environmental report pre-

TABLE S-3-TABLE OF URANIUM FUEL CYCLE ENVIRONMENTAL DATA (b) Table S-3.

Normalized to model LWR arrutal fuel requirement [WASH-1248] or reference reactor year [NUREG-0116]] [See footnotes at end of this table]	nt [WASH-1 es at end of	248) or reference reactor year [NUREG-0116]] this table]
Environmental considerations	Total	Maximum effect per annual fuel requirement or refeerance reactor year of model 1,000 MWe LWR
NATURAL RESOURCE USE		
Land (acres):  Temporarily committed?  Undisturbed area  Disturbed area	22 7 60	Equivalent to a 110 MWe coal-fired power plant.
Permanently committed	13 2.8	Equivalent to 95 MWe coal-fired power plant.
Water (millions of gallons): Discharged to air	160	2 percent of model 1,000 MWe LWR with cooling tower.
Discharged to water bodies	11,090	
Total	11,377	<4 percent of model 1,000 MWe LWR with once-through cooling.
Fossil fuel: Electrical energy (thousands of MW-hour) Equivalent coal (thousands of MT)	323 118	-5 percent of model 1,000 MWe LWF output. Equivalent to the consumption of a 45 MWe coal-fired power plant.
Natural gas (millions of scf)	135	<0.4 percent of model 1,000 MWe energy output.
EFFLUENTSCHEMICAL (MT)		
Gases (including entrainment): 3	 }	
SO <sub>x</sub>	1,190	Equivalent to emissions from 45 MWe coal-fired plant for a year.
Hydrocarbons	20 4	
CO	1.152	

# **Nuclear Regulatory Commission**

[Normalized to model LWR annual fuel requirement [WASH-1248] or reference reactor year [NUREG-0116]] TABLE S-3-TABLE OF URANIUM FUEL CYCLE ENVIRONMENTAL DATA 1--Continued [See footnotes at end of this table]

apparents that the matter was addressed and that, in	the backgro	Occupancy where no entry appears it is clear from
From reprocessing and waste management.	2.5 22.6	Exposure of workers and general public
	4,063	TRU and HLW (deep)
missioning—buried at land our at incurred to comes from mills—included in tailings returned to ground. Approximately 60 Ci comes from conversion		
ص	11,300	Solids (buried on site): Other than high level (shallow)
	5.9×10 <sup>-6</sup>	Fission and activation products
From fuel fabrication plants—concentration to proceed of 10 CFH 20 for total processing 26 annual fuel requirements for model LWR.	.01	Th-234
From UF <sub>6</sub> production.	.0034	Pa-226
Principally from milling—included tailings liquor and re- turned to ground—no effluents; therefore, no effect on environment.	2.1	Liquids: Uranium and daughters
	203	TC-98Fission products and transuranics
personally under consideration by the Commission.	.83	F129
Principally from fuel reprocessing plants.	14	K(-85 (thousands)
	24	Triium (thousands)
	.034	Th-230
FIGOGRAP CONTRACTOR	8	HP-222
Presently under reconsideration by the Commission.		Gases (including entrainment):
		=#hents—Padiological (curies)
Principally from milis—no significant effluents to environ- ment.	91.000	Tailings solutions (thousands of MT)
ride—70 cfs.	2 .4	NT <sub>0</sub>
dilution water are: NH <sub>3</sub> 600 cfs., NO <sub>3</sub> 20 cfs., Fluo-	12.1	Na +
bodies of water to levels below permissible standards.	60 U	Ca++
verse environmental effect are present in dilute con- rentrations and receive additional dilution by receiving	12.9	NO-3
From enrichment, fuel fabrication, and reprocessing steps. Components that constitute a potential for ad-	9.99	Liquids:
	.014	HOL
nan h		7
Principally from UFs production, enrichment, and reproc-	.67	gases:
Maximum enert per at model 1,000 NWe LWR	Total	Environmental considerations
the ser annual first requirement or ref-		

In some cases where no entry appears it is clear from the background documents that the matter was addressed and that, in the Table should be read as it a specific zero entry had been made. However, there are other areas that are not addressed at all in the Table. Table S-3 does not include health effects from the effluents described in the Table, or estimates of dressed and first. These issues may be the subject of itigation in the flectis from the effluents described in the Table, or estimates of the partition of the continues. These issues may be the subject of itigation in the holyhitual icensing proceedings. WASH-1248, April 1974; the saing activities, These issues may be the subject of itigation in the holyhitual icensing proceedings. WASH-1248, April 1974; the partition of the partition

Particulates

[49 FR 9381, Mar. 12, 1984; 49 FR 10922, Mar. 23, 1984]

# §51.52 Environmental effects of trans-portation of fuel and waste—Table S—

graph (a) of this section or all of the the reactor and this transportation elconditions in paragraph (b) of this secther meet all of the conditions in parator. That statement shall indicate that dinactive wastes to and from the reaccerning transportation of fuel and rafor the construction permit stage of a light-water-cooled nuclear power reac-Every environmental report prepared and submitted after February 4 shall contain a statement con-

- megawatts; power (a)(1) The reactor has a core thermal level not exceeding 3,800
- are encapsulated in zircaloy rods; ceeding 4% by weight, and the pellets sintered uranium dioxide pellets having a uranium-235 enrichment not ex-(2) The reactor fuel is in the form of
- does not exceed 33,000 megawatt-days days after it is discharged from the reper metric ton, and no irradiated fuel the irradiated fuel from the reactor assembly is shipped until at least 90 (3) The average level of irradiation of
- fuel, all radioactive waste shipped from (4) With the exception of irradiated

the reactor is packaged and in a solid form;

- reactor by truck or rail; and shipped from the reactor by truck, rail or barge; and radioactive waste other than irradiated fuel is shipped from the (5) Unirradiated fuel is shipped to the truck; irradiated fuel is
- mental costs of licensing the reactor. graph (c) of this section; and the values forth in Summary Table S-4 in parasible accidents in transport, are as set mal conditions of transport and posfrom the reactor, with respect to nortransportation of fuel and waste to and in the table represent the contribution (6) The environmental impacts of transportation to the environ-
- of licensing the reactor. ditions of paragraph (a) of this section the statement shall contain a full de-scription and detailed analysis of the such effects to the environmental costs analysis represent the contribution of that the values determined by the vironmental risk from accidents in conditions of transport and for the enenvironmental impact tation of fuel and wastes to and from environmental effects of transportransport. The statement shall indicate the reactor, including values for the (b) For reactors not meeting the conunder normal

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SUMMARY TABLE S-4-ENVIRONMENTAL IMPACT OF TRANSPORTATION OF FUEL AND WASTE TO AND FROM ONE LIGHT-WATER-COOLED NUCLEAR POWER REACTOR 1 Normal Conditions of Transport

Rail	Truck	Traffic density:	Weight (governed by Federal or State restrictions)	Heat (per irradiated fuel cask in transit) 250,000 Btuhr.	
Less than 3 per month	Less than 1 per day.		73,000 lbs. per truck; 100 tons per cask per rail car.	250,000 Btu/hr.	Environmental impact

***************************************	Ontookers	Transportation workers	Exposed population	
	80		Estimated number of persons exposed	
	1,100 0.003 to 1.3 millirem	200 0.01 to 300 millirem 4 man-rem.	Range of doses to exposed individ- uats 2 (per reactor year)	
	3 man-rem	4 тап-твт.	Cumulative dose to exposed population (per react) year) <sup>3</sup>	

# **Nuclear Regulatory Commission**

Accidemts in Transport

Common (nonradiological) causes Radiological effects Small 4 t fatal injury in 100 reactor years; 1 nonfatal injury in 10 reactor years; \$475 property damage per reactor year Environmental risk

Data supporting this table are given in the Commission's "Environmental Survey of Transportation of Radioactive Materials to and from Nuclear Power Plants," WASH-1238, December 1972, and Supp. 1 NI/REG-75/038 April 1975. Both occurrents are available for inspection and copying at the Commission's Public Document Room, 2/120. I Street NW., Washington, DC and may be obtained from National Technical Information Service, Springfield, VA 22/151. WASH-1238 is available from NTIS at a cost of \$4.5 (indicrotiche, \$2.25) and NU/REG-75/038 is available at a cost of \$3.25 (indicrotiche, \$2.25) and NU/REG-75/038 is available at a cost of \$3.25 (indicrotiche, \$2.25).

The Federal Radiation Council has recommended that the radiation doses from all sources of radiation other than natural background and medical exposures should be limited to 500 millitem per year for individuals in the general population. The dose to individuals due to average natural background radiation is about 130 millitem per year.

Man-rem is an expression for the summation of whole body doses to individuals in a group. Thus, if each member of a population should be increased to the programment of the programment of

;19 FR 9381, Mar. 12, 1984; 49 FR 10922, Mar. 23, 1984, as amended at 53 FR 43420, Oct. 27, 1988]

### §51.53 Postconstruction mental reports. environ-

ating license, and any license amend-ment for that facility. stage; NRC staff-prepared final generic ments prepared at the license renewal with the construction permit, the operof decisions prepared in connection -nvironmental assessments and records environmental impact statements; and impact statement, including supplepiements to the final environmental environmental impact statement; supclude, but are not limited to, the final Documents that may be referenced inpared by the NRC staff that relates to ronmental document previously prethe production or utilization facility. information contained in a final enviduction or utilization facility or any ment thereto that relates to the prior environmental report or suppleerence any information contained in a port prepared under the provisions of this section may incorporate by ref-(a) General. Any environmental re--0.Iđ

of a separate document entitled "Supan operating license for a nuclear cower reactor shall submit this report by the Commission, the applicant for conmental Report—Construction Perwhich will update "Applicant's Enviplement to Applicant's Environmental mit Stage." Unless otherwise required Report—Operating tion or utilization facility covered by cant for a license to operate a producthe number of copies specified in §51.55 §51.20 shall submit with its application (b) Operating license stage. Each appli-License Stage,"

> any aspect of the storage of spent fuel mit. No discussion of need for power, or of alternative energy sources, or of alonly in connection with the first ligeneric determination in §51.23(a) and ternative sites for the facility, or of connection with the construction perment prepared by the Commission in censing action authorizing full-power in this report. in accordance with §51.23(b) is required for the facility within the scope of the the final environmental impact statetion in addition to that discussed in those discussed or reflect new informaonly to the extent that they differ from scribed in §§ 51.45, 51.51, and 51.52, shall discuss the same matters operation. In this report, the applicant but

- newal Stage." with its application the number of copmental Report—Operating License Reies specified in §51.55 of a separate docpart 54 of this chapter shall submit ument entitled "Applicant's Environ to operate a nuclear power plant under Each applicant for renewal of a license (c) Operating license renewal stage. (1)
- report the environmental impacts tion, the applicant shall discuss in this report must describe in detail the ance with §54.21 of this chapter. This scription of the proposed action, inthat affect the environment. In addivironment or affecting plant effluents modifications directly affecting the entrol procedures as described in accordcluding the applicant's plans to modify the facility or its administrative con-(2) The report must contain a de-

need not discuss any aspect of the storage of spent fuel for the facility within the scope of the generic determination addition, posed action and the alternatives. In the environmental effects of the pronot discuss other issues not related to gation. The environmental report need natives considered or relevant to mitian alternative in the range of altertermination regarding the inclusion of tion except insofar as such costs and benefits are either essential for a deor of alternatives to the proposed acnomic benefits of the proposed action power or the economic costs and ecoalternatives and any other matters described in §51.45. The report is not required to include discussion of need for §51.23(a) and in accordance with the environmental report

ther an operating license or construc-tion permit as of June 30, 1995, the en-vironmental report shall include the lowing conditions and considerations: (c)(2) of this section subject to the fol-(3) For those applicants seeking an initial renewal license and holding eiinformation required in paragraph

vironmental impacts of the license renewal issues identified as Category 1 operating license renewal stage is not this part. issues in appendix B to subpart A of required to contain analyses of the en-(i) The environmental report for the

The required analyses are as follows: appendix B to subpart A of this part during the renewal term, for those issues identified as Category 2 issues in renewal and the impacts of operation ing the impacts of refurbishment acimpacts of the proposed action, includcontain analyses of the environmental (ii) The environmental report must if any, associated with license

cooling towers or cooling ponds and withdraws make-up water from a river whose annual flow rate is less than 3.15x10<sup>12</sup> ft<sup>3</sup>/year (9x10<sup>10</sup> m<sup>3</sup>/year), an assessment of the impact of the proposed alluvial aquifers during low flow withdrawal of water from the river on ecological communities must be proaction on the flow of the river and rean assessment of the impacts of the vided. The applicant shall also provide lated impacts on instream and riparian (A) If the applicant's plant utilizes

> and entrainment. ing from heat shock and impingemen on fish and shellfish resources result sess the impact of the proposed action provide these documents, it shall as umentation. If the applicant can no ance with 40 CFR part 125, or equiva lent State permits and supporting doc necessary, a 316(a) variance in accord-Water Act 316(b) determinations and, i shall provide a copy of current Clear heat dissipation systems, the applican once-through cooling or cooling pon If the applicant's plant utilize

gallons (total onsite) of ground water water use must be provided. pact of the proposed action on ground per minute, an assessment of the im-Ranney wells or pumps more than I (C) If the applicant's plant use

at an inland site and utilizes cooling ponds, an assessment of the impact of the proposed action on groundwater (D) If the applicant's plant is located

quality must be provided.

ance with the Endangered Species Act ened or endangered species in accord pact of the proposed action on threat ally, the applicant shall assess the imconstruction activities on important ment and other license-renewal-related jastd and animal habitats. Addition assess the impact of refurbish All license renewal applicant

must be provided in accordance with the Clean Air Act as amended. exhaust emissions anticipated at the time of peak refurbishment workfore nance area, an assessment of in or near a nonattainment or mainte (F) If the applicant's plant is located vehick

nisms in the affected water must be of the impact of the proposed action or public health from thermophilic orgaaverage flow rate of less than 3.15x10 cooling pond, lake, or canal or disft³/year (9x1010 m³/year), an assessmen charges (G) If the applicant's plant uses a into a river having an annua

an assessment of the impact of the preelectric shock from induced current posed action on the potential cific purpose of connecting the plant  $\kappa$ lines that were constructed for the spe Electric the transmission system do not meet the recommendations of the Nationa If the applicant's transmission Safety Code for preventing

> must be provided from the transmission lines

the public water supply. tributable to the proposed project the impact of population increases atplicant shall provide an assessment of must be provided. Additionally, the aponly) within the vicinity of the plant ability, land-use, and public schools impacts from refurbishment activities the proposed action on housing avail-(I) An assessment of the impact of E C

activities and during the term of the service of local highways during periods of license renewal refurbishment renewed license. pact of highway traffic generated by the proposed project on the level of ie public water ביניעוע. (J) All applicants shall assess the im-traffic generated by

erties will be affected by the proposed er any historic or archaeological propproject (K) All applicants shall assess wheth-

dents must be provided afternatives to mitigate severe accimental assessment, a consideration of related supplement or in an environconsidered severe accident mitigation in environmental impact statement or alternatives for the applicant's plant in (M) [Reserved] (L) If the staff has not previously

adverse impacts, as required by \$51.45(c), for all Category 2 license renewal issues in appendix B to subpart to this part. No such consideration is dix B to subpart A of this part. required for Category 1 issues in appensideration of alternatives for reducing (iii) The report must contain a con-

applicant is aware. impacts of license renewal of which the contain any new and significant information regarding the environmental (iv) The environmental report must

cense or license amendment the site; and each applicant for a liunuing use restrictions applicable for unrestricted use or based on conplan under §50.82 of this chapter either termination plan or decommissioning cense amendment approving a license to the site; and each applicant for a licontinuing use restrictions applicable applicant for a license amendment aueither for unrestricted use or based on for a production or utilization facility thorizing decommissioning activities (d) Postoperating license stage. to store Each

> Stage. mental contained corporate by reference any information Post Operating License Stage" may into Applicant's Environmental Reportof spent fuel storage for the term of the only address the environmental impact visions in §51.23(b), the applicant shall determination in §51.23(a) and the prolicense applied for. The "Supplement mission, in accordance with the generic Unless otherwise required by the Comcant's proposed activities with respect to the planned storage of spent fuel sioning activities or with the applithe applicant's proposed decommisvironmental change associated with any new information or significant encense Stage," as appropriate, to reflect Environmental Report—Operating Li-Report—Post Operating License Stage," which will update "Applicant's plement to Applicant's Environmental of a separate document, entitled "Supnumber of copies, as specified in §51.55, shall submit with its application the cense for the nuclear power reactor spent fuel at a nuclear power reactor after expiration of the operating li-Report-Construction Permit in "Applicants Environ-

FR 48506, Sept. 3, 1999] [61 FR 66543, Dec. 18, 1996, as amended at 64

### §51.54 Environmental facturing license. report-manu

propriate. information specified in §51.45, as apof this chapter, and shall contain the shall address the environmental matters specified in appendix M of part 52 Environmental Report—Manufacturing License." The environmental report cense," or "Supplement to Applicant's document, entitled "Applicant's Envichapter, shall submit with its applicasign of the nuclear power reactor, pursuant to appendix M of part 52 of this ronmental tion, as specified in §50.4, a separate ture seeking approval of the final defacture a nuclear power reactor or, for an amendment to a license to manufac-Each applicant for a license to manu-Report-Manufacturing Li-

[51 FR 40311, Nov. 6, 1986, as amended at 54 FR 15398, Apr. 18, 1989]

§51.55 Environmental report—number of copies; distribution.

clear Material Safety and Safeguards, as appropriate. tion or the Director of the Office of Nuthe Office of Nuclear Reactor Regulain the NRC proceedings; Federal, State, the environmental report or any supplement to the environmental report for distribution to parties and Boards mental report or any supplement to an environmental report. The applicant shall retain an additional 109 copies of dian tribes, in accordance with written and local officials; and any affected Inerating license for the nuclear power plant shall submit to the Director of the Office of Nuclear Reactor Regulainstructions issued by the Director of as appropriate, 41 copies of an environclear Material Safety and Safeguards, amendment authorizing the decommis-sioning of a production or utilization tion or the Director of the Office of Nupower plant after expiration of the opment to store spent fuel at a nuclear plicant for a license or license amendfacility covered by §51.20, and each applant, each applicant for a license operating license for a nuclear power §51.20, each applicant for renewal of an graphs (b)(1), (b)(2), (b)(3), or (b)(4) of utilization facility covered by paraconstruct and operate a production or (a) Each applicant for a license to

cials and any affected Indian tribes, in ceeding, Federal, State, and local offiparties and Boards in the NRC proreport or any supplement to the envi-ronmental report for distribution to tional 109 copies of the environmental or Regulation. accordance with written instructions The applicant shall retain an addireport in the manner specified in §50.4. or any supplement to an environmental ssued by the Director of Nuclear Reac-Commission an environmental report of this chapter shall submit tor, pursuant to appendix M of part 52 manufacture a nuclear power reactor, or for an amendment to a license to final design of the nuclear power reacmanufacture seeking approval of the (b) Each applicant for a license to to the

[51 FR 40311, Nov. 6, 1986, as amended at 53 FR 24052, June 27, 1988; 54 FR 15398, Apr. 18, 1989; 61 FR 28488, June 5, 1996; 61 FR 66544, Dec. 18, 1996; 62 FR 59276, Nov. 3, 1997]

ENVIRONMENTAL REPORTS-MATERIALS LICENSES

### §51.60 Environmental rials licenses. report-mate

ronmental assessment, as appropriate mental impact statement or an envi-Energy, the environmental report may perience or a change in operations or supplementing the information prebe in the form of either an environnificant environmental change, includment to applicant's environmental rean environmental report, the supple the applicant is the U.S. Department of proposed decommissioning activities. Ii change resulting from operational exing any significant environmental viously submitted to reflect any sigport may be limited to incorporating amendment to or a renewal of a license or other form of permission for which mental Report," as appropriate. The "Applicant's Environmental Report" ğ the applicant has previously submitted in §51.45. If the application is for an shall contain the information specified "Supplement to Applicant's Environof a separate document, entitled "Apnumber of copies, as specified in §51.66 plicant's Environmental Report" or plication to the Director of Nuclear Material Safety and Safeguards the this section, shall submit with its apand/or 72 of this chapter, and covered form of permission issued pursuant to parts 30, 32, 33, 34, 35, 36, 39, 40, 61, 70 by paragraphs (b)(1) through (b)(5) of ment to or renewal of a license or other other form of permission, or an amend (a) Each applicant for a license or reference, updating

following types of actions: pare an environmental report for the this section, each applicant shall pre-(b) As required by paragraph (a) of

other form of permission for: (1) Issuance or renewal of a license or

fabrication, scrap recovery, or conversion of uranium hexafluoride pursuant to part 70 of this chapter. clear material for processing and fuel Possession and use of special nu-

to part 40 of this chapter. tion of uranium hexafluoride pursuant terial for uranium milling or produc-(ii) Possession and use of source ma-

pendent spent fuel storage installation (iii) Storage of spent fuel in an inde-

> (MRS) pursuant to part 72 of this chap-(ISFSI) or the storage of spent fuel or itored retrievable storage installation high-level radio-active waste in a mon-

ant to part 61 of this chapter. active waste from other persons pursu-(iv) Receipt and disposal of radio-

extraction of rare earth and other met-(v) Processing of source material for

tertiary oil and gas recovery. flood studies involving secondary and (vi) Use of radioactive tracers in field

(vii) Construction and operation of a

graph (b)(1) of this section. in a license or other form of permission effluents, (iii) a significant increase in would authorize or result in (i) a sig-nificant expansion of a site, (ii) a sigto conduct an activity listed in paraincrease in spent fuel storage capacity, logical accidents, or (vi) a significant tial for or consequences from radio-(v) a significant increase in the potenlative occupational radiation exposure, cant increase in individual or cumuthe amounts of effluents, (iv) a signifiuranium enrichment facility, (2) Issuance of an amendment that change in the types

able storage installation (MRS) pursuant to part 72 of this chapter. lation (ISFSI) or a monitored retrievindependent spent fuel storage instalthorize the decommissioning (3) Amendment of a license to au-오 an

site, (ii) transfer of the license to the institutional control period. nation of the license at the end of the institutional control, or (iii) termidisposal site owner for the purpose of pursuant to part 61 of this chapter authorizing (i) closure of a land disposal (4) Issuance of a license amendment

Environmental Report is necessary. which the Commission determines an (5) Any other licensing action for

[49 FR 9381, Mar. 12, 1984, as amended at 53FR 31681, Aug. 19, 1988; 57 FR 16392, Apr. 30, 1982; 58 FR 7737, Feb. 9, 1983; 62 FR 26732, May

### §51.61 Environmental able storage installation (MRS) lipendent spent fuel storage installa-tion (ISFSI) or monitored retrievreport-inde-

any amendment thereto. storage of spent fuel in an ISFSI, or an applicant for an initial license for amendment applied for is required beyond the term of the license cussion of the environmental impact of the storage of spent fuel at an ISFSI and the provisions in §51.23(b), no disaddress the siting evaluation factors assessment, as appropriate. The environmental report shall contain the information specified in §51.45 and shall cant's Environmental Report—MRS License," as appropriate. If the applicant is the U.S. Department of Energy, the an environmental report submitted by contained in subpart E of part 72 of entitled "Applicant's Environmental the generic determination in §51.23(a) this chapter. Unless otherwise required form of either an environmental imlation (ISFSI) or for the storage of by the Commission, in accordance with pact statement or an environmental environmental report may be in Report--ISFSI License" or "Applified in §51.66 of a separate document guards the number of copies, as speciwith its application to the Director of Nuclear Material Safety and Safeage installation (MRS) pursuant to part 72 of this chapter shall submit waste in a monitored retrievable storspent cense for storage of spent fuel in an independent spent fuel storage instal-Each applicant for issuance of a lifuel and high-level radioactive

[53 FR 31681, Aug. 19, 1988]

### §51.62 Environmental censed under 10 CFR part 61. disposal of radioactive report-land waste li-

ty and Safeguards the number of copies, as specified in §51.66 of a separate the Director of Nuclear Material Safeter shall submit with its application to (a) Each applicant for issuance of a license for land disposal of radioactive waste pursuant to part 61 of this chap-

Nuclear Regulatory Commission

vided that such references are clear contained in the application or in any able at the NRC Web site, and specific and that copies of the inprevious application, statement or re-port filed with the Commission prodocument, entitled "Applicant's Envi-Document Room. www.nrc.gov, and/or at the NRC Public formation so incorporated are availenvironmental report and any supple-Disposal of Radioactive Waste." The incorporate by reference information ment to the environmental report may Report-License for http:// Land

this chapter, and shall be as complete as possible in the light of information that is available at the time the enviquired by §§ 61.12(1), 61.53 and 61.59(b) of ronmental report is submitted. vironmental monitoring program recontain the information specified §51.45, shall address the applicant's en-(b) The environmental report shall

tivities, or any significant new inforany changes in previously proposed acgarding the environmental impact of environmental impact of previously term performance of the disposal site. impact of closure activities and longproposed activities, information rethe environmental report in a timely license, new information regarding the issuance, amendment or renewal of a Commission manner as necessary to permit the (c) The applicant shall supplement regarding the environmental to review, prior 당

[49 FR 9381, Mar. 12, 1984, as amended at 53 FR 43420, Oct. 27, 1988; 64 FR 48952, Sept. 9,

# §51.66 Environmental report—number of copies; distribution.

(a) Each applicant for a license or other form of permission, or an amendparts 30, form of permission issued pursuant to ment to or renewal of a license or other tain additional copies of the environcopies specified. The applicant shall reenvironmental report in the number of by paragraphs (b) (1) through (6) of §51.60; or by §51.61 or §51.62 shall subparts 30, 32, 33, 34, 35, 36, 39, 40, 61, 70 and/or 72 of this chapter, and covered mental report or any supplement mental report or any supplement to an Safety and Safeguards an environmit to the Director of Nuclear Material

> and any affected Indian tribes in acthe environmental report in the num-ber of copies specified for distribution rial Safety and Safeguards. cordance with written instructions issued by the Director of Nuclear Mate-ర r of copies specified for distribution Federal, State, and local officials

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## **ENVIRONMENTAL REPORT**

mental impact statements pursuant to §51.20(b). Licensing actions requiring environmental assessments pursuant to §51.21.	Licensing actions re- quiring environ-	Type of licensing action
15 copies	25 copies	Number of copies to be submitted with application
None.	125 copies.	Number of copies to be retained by applicant for subsequent distribu-

[49 FR 9381, Mar. 12, 1984, as amended at 52 FR 8241, Mar. 17, 1987; 58 FR 7737, Feb. 9, 1989]

### §51.67 Environmental concerning geologic repositories. information

to required time and manner of submisamended. (See §60.22 of this chapter as repository developed under Subtitle A of Title I, or under Title IV, of the Nupares in connection with any geologic sion any final environmental impact amendment pursuant to part 60 of this port, the Department of Energy, as an tion authorization by the Commission ation, denial of a license or construcamong the alternatives under considersion.) clear Waste Policy Act of 1982, as statement which the Department prechapter, shall submit to the Commisapplicant for a license or (b) Under applicable provisions of (a) In lieu of an environmental re-The statement shall include. license

ment to its final environmental impact posed action that is relevant to envirequired to supplement its final environmental impact statement if it Department shall submit any supple the proposed action or its impacts. The environmental concerns and bearing on cumstances or information relevant to ronmental concerns or determines that makes a substantial change in its prolaw, the Department of Energy may be are significant

> §60.22 of this chapter as to required time and manner of submission.) the Commission. (See

status, shall: from time to time to reflect changes in which the Department shall update Policy Act of 1982. This status report, ant to section 119 of the Nuclear Waste tion for judicial review initiated pursumission of the status of any civil acsection, it shall also inform the Comto the Commission pursuant to this ergy submits a final environmental impact statement, or a final supplement to an environmental impact statement, (c) Whenever the Department of En-

adequate or inadequate; and the courts of the United States to impact statement has been found by (1) State whether the environmental

statement that may remain subject to adequacy of the environmental impact judicial review. (2) Identify any issues relating to the

HFR 27870, July 3, 1989]

ENVIRONMENTAL REPORTS—RULEMAKING

### §51.68 Environmental report-rule-

which shall contain the information material shall submit with the petition specified in §51.45. \$51.69. of a separate document entitled the number of copies, as specified in rial, source material or special nuclear product containing byproduct mateor authorizing general licenses for any censing and regulatory requirements of Petitioner's Environmental Report," equipment, device, commodity or other er concerning the exemption from li-34, 35, 36, 39, 40 or part 70 of this chaping amendments of parts 30, 31, 32, 33, Petitioners for rulemaking request-

'9 FR 9381, Mar. 12, 1984, as amended at 52 FR 8241. Mar. 17, 1987; 58 FR 7737, Feb. 9, 1993]

### \$51.69 Environmental report-number of copies.

plement to an environmental report. of an environmental report or any supby §51.68 shall submit fifty (50) copies Petitioners for rulemaking covered

ENVIRONMENTAL IMPACT STATEMENTS

STATEMENTS-GENERAL REQUIREMENTS DRAFT ENVIRONMENTAL IMPACT

## §51.70 Draft environmental impact statement-general.

other Federal law. lated surveys and studies required by environmental impact analyses and repared concurrently or integrated with mental impact statements will be prepletion of the scoping process. To the ronmental impact statement and comthe notice of intent to prepare an envisoon as practicable after publication of environmental impact statement as (a) The NRC staff will prepare a draft extent practicable, environ-

draft environmental impact statement. liability of all information used in the evaluate and be responsible for the reused. The NRC staff will independently pendix A of this subpart should mental analyses have been made. The format provided in section 1(a) of apdence that the necessary environany methodologies used and sources reother relevant and applicable environstate how alternatives considered in it and decisions based on it will or will lied upon, and will be supported by evimental laws and policies, will identify tions 101 and 102(1) of NEPA and of any guage with appropriate graphics, not achieve the requirements of secanalytic, will be written in plain lanstatement will be concise, clear (b) The draft environmental impact The Commission will cooperate will

with State and local agencies to the 40 CFR 1506,2 (b) and (c). cation between NEPA and State and fullest extent possible to reduce duplilocal requirements, in accordance with

## §51.71 Draft environmental impact statement-contents.

in paragraphs (b), (c), (d) and (e) of this section and the matters specified draft statement will address the topics the extent required by the scope, the in the scoping process required §§51.26 and 51.29. As appropriate and accordance with the scope decided upon impact statement will be prepared in (a) Scope. The draft environmental ö

§§ 51.45, 51.50, 51.61 and 51.62. 51.51, 51.52, 51.53, 51.54,

available, the draft environmental imcerning the environmental impacts of pact statement will include considerthe extent sufficient information is the proposed action and the alterand by other interested persons. natives, and contain an analysis of sigagencies, by any affected Indian tribes, by other Federal, State, and local nificant problems and objections raised (b) Analysis of major points of view. To of major points of view con-

tus of compliance with those requirements. If it is uncertain whether a Fedvironmental impact statement will list all Federal permits, licenses, approveral permit, license, approval, or other als, and other entitlements which must vironmental impact statement will so entitlement is necessary, the draft enposed action and will describe the stabe obtained in implementing the pro-(c) Status of compliance. The draft en-

newal stage pursuant to §51.95(c) need not discuss the economic or technical draft stage prepared pursuant to §51.95(c). ments for the operating license renewal mental environmental impact statereducing or avoiding adverse environaction; and alternatives available for pacts of alternatives to the proposed proposed action; the environmental imweighs the environmental effects of the statements prepared at the license reof the proposed action identified pursuations of Federal policy, including fac-tors not related to environmental qualother benefits and costs of the proposed ation of the economic, technical, and ments should also include considerimpact statement will include a pregarding the inclusion of an alternative sofar as such benefits and costs are eiposed action or alternatives except inbenefits and costs of either the pro-Supplemental environmental ant to paragraph (a) of this section. consideration of environmental effects ity if applicable, are relevant to the what other interests and consideraction and alternatives and indicate mental liminary analysis that considers and ther essential for a determination re-(d) Analysis. The draft environmental environmental impact stateeffects. Except for suppleimpact

> ignated as Category 1 in appendix B to subpart A of this part. The draft supin the range of alternatives considered formation in the GEIS for issues dessions as amplified by the supporting insuant to §51.95(c) will rely on conclument for license renewal prepared purmental environmental impact stateclated alternatives. The draft suppleeffects of the proposed action and assoissues not related to the environmental renewal stage need not discuss other pact statement prepared at the license the supplemental environmental imor relevant to mitigation. In addition, jous factors considered. To the extent extent practicable, quantify the varimpact statements will, to the fullest analysis for all draft environmental are open for the proposed action. The pendix B to subpart A of this part that issues identified as Category 2 in apment must contain an analysis of those plemental environmental impact stateconsiderations or factors that cannot that there are important qualitative protection, including applicable zoning State, regional, and local agencies havthat have been imposed by Federal quality standards and requirements S terms. Due consideration will be given factors will be discussed in qualitative be quantified, these considerations or cation or license from the appropriate ments irrespective of whether a certifiered by such standards and requireposed action will be considered in the mulgated or imposed pursuant to the and land-use regulations and water poling responsibility for environmental authority has been obtained.3 While analysis with respect to matters cov-The environmental impact of the pro-Federal Water Pollution Control Act lution limitations or requirements procompliance with environmental

## Nuclear Regulatory Commission

effects will be necessary to meet the liand alternatives. purposes of NEPA, consider the radio-Energy Act, the analysis will, for the censing requirements of and criteria pertaining to radiological satisfaction of Commission standards logical effects of the proposed action the Atomic

specting the proposed action. This pre-51.85, and 51.95, as appropriate, and will scribed in paragraphs (a) through (d) of recommendation by the NRC staff redraft environmental impact statement normally will include a preliminary except for supplemental environmental be reached after considering the envion the information and analysis detion and reasonable alternatives,4 and ronmental effects of the proposed acthis section and §§ 51.75, 51.76, 51.80, liminary recommendation will be based (e) Preliminary recommendation. The

authority and other agencies having relevant expertise the magnitude of potential impacts for striking an overall cost-benefit balance for the facility at the construction permit and operating license stages, and in its derenewal for energy planning decisionmakers creat that preserving the option of license would be unreasonable at the license renewal mental impacts of license renewal are so own or in conjunction with the permitting renewal stage. When no such assessment of aquatic impacts is available from the perenvironmental impacts of license renewal are so great that preserving the option of litermination of whether the adverse environmitting authority, NRC will establish on its makers would be unreasonable at the license cense renewal for energy planning decisionin its determination of whether the adverse of environmental impacts for striking an essment of aquatic impact from plant dis-thingus is available from the permitting au-thority, the NRC will consider the assesstion permit and operating license stages, and overall cost-benefit balance at the construcment in its determination of the magnitude verse effects. Where an environmental asaction that are available for reducing ad-

these alternatives and in no way preempts, displaces, or affects the authority of States or other Federal agencies to address these saues meeting its NEPA obligations and does not clear power reactors (e.g., alternative energy sources) is intended to assist the NRC in natives to a proposed action involving nuseparate determinations with respect to preclude any State authority from making The consideration of reasonable alter-

> ment that two or more alternatives restaff may indicate in the draft statelieu of a recommendation, the NRC and benefits of the proposed action. cense renewal stage prepared pursuant to §51.95(c), after weighing the costs main under consideration. impact statements for the operating li-

§51.72 Supplement to draft environ-

[49 FR 9381, Mar. 12, 1984, as amended at 61 FR 28488, June 5, 1996; 61 FR 66544, Dec. 18,

# mental impact statement.

§ 51.117, if: availability has been published in the pact statement for which a notice of FEDERAL REGISTER as provided in plement to a draft environmental im-(a) The NRC staff will prepare a sup-

to environmental concerns; or the proposed action that are relevant (1) There are substantial changes in

the proposed action or its impacts. environmental concerns and bearing on cumstances or information relevant to (2) There are significant new cir-

ther the purposes of NEPA. preparation of a supplement will furpact statement when, in its opinion, plement to a draft environmental im-(b) The NRC staff may prepare a sup-

statement except that a scoping procner as the draft environmental impact prepared and noticed in the same maness need not be used. ronmental impact statement will be (c) The supplement to a draft envi-

### §51.73 Request for comments on draft environmental impact statement.

state where comments should be sub-The comment period will be calculated ment period of 45 days will be provided ment period closes. A minimum committed and the date on which the commental impact statement and distributed in accordance with §51.74, any supplement to the draft environenvironmental impact statement or the proposed action and on the draft or include a request for comments on ant to §51.74(d) will be accompanied by and each news release provided pursustatement and each supplement to a draft environmental impact statement Each draft environmental impact

ing the degradation, if any, of water quality, and to consider alternatives to the proposed mental effects of the proposed action, includrequirement for NRC to weigh all environnot a substitute for and does not negate the by EPA or designated permitting states) is eral Water Pollution Control Act (imposed <sup>1</sup>Compliance with the environmental quality standards and requirements of the Fed.